

AMENDMENTS TO THE CLAIMS:

If entered, this listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A system to perform a light show, wherein LED modules are displaying related light beams having defined properties, wherein said properties have been defined prior to performing said light show, is comprising:

an integrated circuit comprising:

5                    an user interface to input information about properties of said light beams, wherein said interface is directly connected to a memory;

                    said memory to store the information about the properties of said beams to be displayed;

                    a sequencer to control an LED driver unit, wherein the sequencer is  
10                   connected to second terminals of an arrangement of at least one LED module;

                    said LED driver unit comprising a driver for each color of said LED modules able to control the intensity of light, wherein the LED driver unit is connected between said memory and first terminals of said arrangement of at least one LED module; and

15                   an electrical connection between said LED driver unit and said arrangement of at least one LED module; and

said arrangement of at least one LED module.

2. (cancelled)
3. (original) The system of claim 1 wherein said arrangement of one or more LED modules comprises three LED modules.
4. (original) The system of claim 1 wherein said arrangement of one or more LED modules comprises more than one LED each.
5. (original) The system of claim 4 wherein said arrangement of one or more LED modules comprises three LEDs each.
6. (previously presented) The system of claim 5 wherein said three LED emit each light of a different color wherein said colors are primary colors of a color space.
7. (previously presented) The system of claim 6 wherein said three LED emit red, green and blue light (RGB).
8. (original) The system of claim 1 wherein said LED drivers are PWM LED drivers.
9. (original) The system of claim 8 wherein said PWM drivers are 4-bit drivers.
10. (original) The system of claim 9 wherein 4096 different colors can be displayed.

- 11.**(original) The system of claim **1** wherein said LED drivers are current controlled drivers.
- 12.**(original) The system of claim **1** wherein said properties of said light beams comprise different defined brightness for each LED..
- 13.**(original) The system of claim **1** wherein said properties of said light beams comprise different defined flashing intervals for each LED.
- 14.**(original) The system of claim **1** wherein said properties of said light beams comprise different ON/OFF intervals, different colors, different brightness, and a flashing interval for each LED.
- 15.**(original) The system of claim **1** wherein said LED driver unit is activating the lights in defined time intervals.
- 16.**(previously presented) The system of claim **1** wherein said LED driver unit is controlling the transition between different colors of a LED module using a “flash” mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by a set brightness.

- 17.** (original) The system of claim **1** wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.
- 18.** (original) The system of claim **17** wherein different options are possible to define said fading interval.
- 19.** (original) The system of claim **18** wherein said options to define a fading interval include the options "No Fade", "Slow Fade", "Linear Fade", "Fast Fade".
- 20.** (original) The system of claim **19** wherein only a few of said options are being used.
- 21.** (canceled)
- 22.** (original) The system of claim **1** wherein said circuit is realized in an ASIC.
- 23.** (previously presented) The system of claim **1** wherein said LED modules are connected to said circuit via output pins.
- 24.** (original) The system of claim **23** wherein said output pins are arranged and controlled by a multiplexer arrangement.
- 25.** (original) The system of claim **24** wherein nine output pins are arranged and controlled by a multiplexer arrangement.

**26.** (original) The system of claim **1** wherein said properties of said light beams comprise a light pattern over a multitude of LED modules.

**27.** (original) The system of claim **1** wherein said properties of said light beams comprise a light intensity setting.

**28.** (original) The system of claim **27** wherein said light intensity setting is defined for each LED individually.

**29.** (original) The system of claim **1** wherein said properties of said light beams comprise a defined sequencing of said LEDs.

**30.** (currently amended) A system for visual, electronic communication, highlighting information/events, wherein LED modules are displaying related light signals having defined properties representing said different information/events, is comprising:

an integrated circuit comprising:

an user interface to input information about properties of said light beams, wherein said interface is directly connected to a memory;

said memory to store the information about the properties of said signals to be displayed;

a sequencer to control an LED driver unit, wherein the sequencer is connected to second terminals of an arrangement of at least one LED module;

said LED driver unit comprising a driver for each color of LED  
able to control the intensity of light , wherein the LED driver unit is connected  
between said memory and first terminals of said arrangement of at least one  
LED module; and

an electrical connection between said LED driver unit and said  
arrangement of at least one LED module; and  
said arrangement of at least one LED module.

**31.** (cancelled)

**32.** (original) The system of claim **30** wherein said arrangement of one or more LED  
modules comprises three LED modules.

**33.** (original) The system of claim **30** wherein said arrangement of one or more LED  
modules comprises more than one LED each.

**34.** (original) The system of claim **33** wherein said arrangement of one or more LED  
modules comprises three LEDs each.

**35.** (original) The system of claim **34** wherein said three LEDs emit each light of a different  
color wherein said colors are primary colors of a color space.

**36.** (original) The system of claim **35** wherein said three LEDs emit red, green and blue light  
(RGB).

**37.**(original) The system of claim **30** wherein said LED drivers are PWM LED drivers.

**38.**(original) The system of claim **37** wherein said PWM drivers are 4-bit drivers.

**39.**(original) The system of claim **38** wherein 4096 different colors can be displayed.

**40.**(original) The system of claim **30** wherein said LED drivers are current controlled drivers.

**41.**(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having different brightness.

**42.**(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using flashing lights.

**43.**(original) The system of claim **30** wherein defined categories of information are assigned to specific locations of LED modules.

**44.**(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.

**45.**(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval, different

colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.

**46.**(original) The system of claim **30** wherein said LED driver unit is activating the lights in defined time intervals.

**47.**(previously presented) The system of claim **30** wherein said LED driver unit is controlling the transition between different colors of a LED module using a “flash” mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by a set brightness.

**48.** (original) The system of claim **30** wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.

**49.**(original) The system of claim **48** wherein different options are possible to define said fading interval.

**50.**(original) The system of claim **49** wherein said options to define a fading interval include the options “No Fade”, “Slow Fade”, “Linear Fade”, “Fast Fade”.

**51.**(original) The system of claim **50** wherein only a few of said options are being used.

**52.**(canceled)



- 53.** (original) The system of claim **30** wherein said circuit is realized in an ASIC.
- 54.** (previously presented) The system of claim **30** wherein said LED modules are connected to said circuit via output pins.
- 55.** (original) The system of claim **54** wherein nine output pins are arranged and controlled by a multiplexer arrangement.
- 56.** (previously presented) The system of claim **55** wherein nine output pins are arranged and controlled by a multiplexer arrangement.
- 57.** (original) The system of claim **30** wherein said properties of said light signals to be displayed comprise a light pattern over a multitude of LED modules.
- 58.** (original) The system of claim **30** wherein said properties of said signals to be displayed comprise a light intensity setting
- 59.** (original) The system of claim **58** wherein said properties of said signals to be displayed comprise a light intensity setting for each LED individually.
- 60.** (original) The system of claim **30** wherein said properties of said signals to be displayed comprise a defined sequencing of said LEDs.

**61.** (currently amended) A phone system highlighting information/events, wherein LED modules are displaying related signals representing said different information/events, is comprising:

an integrated circuit comprising:

5 an user interface to input information about properties of said light beams, wherein said interface is directly connected to a memory;

said memory to store the information about the properties of said signals to be displayed;

10 a sequencer to control an LED driver unit, wherein the sequencer is connected to second terminals of an arrangement of at least one LED module;

15 said LED driver unit comprising a driver for each color of LED able to control the intensity of light , wherein the LED driver unit is connected between said memory and first terminals of said arrangement of at least one LED module; and

an electrical connection between said LED driver unit and said arrangement of at least one LED module; and  
said arrangement of at least one LED module.

**62.** (original) The system of claim **61** wherein said LED modules are located on a prominent location of said phone system.

**63.**(original) The system of claim **61** wherein said LED modules are located on the front side of said phone system.

- 64.** (original) The system of claim **61** wherein said LED modules are located on the sides of said phone system.
- 65.** (original) The system of claim **61** wherein said phone system is a mobile phone.
- 66.** (original) The system of claim **65** wherein said LED modules are located on the backside of said mobile phone.
- 67.** (original) The system of claim **61** wherein said phone comprises composer software to define the parameters of said sequencer and to download said parameters to said memory.
- 68.** (original) The system of claim **61** wherein the parameters of said sequencer are downloaded from a PC.
- 69.** (original) The system of claim **61** wherein the parameters of said sequencer are downloaded from the Internet.
- 70.** (original) The system of claim **61** wherein said arrangement of one or more LED modules comprises three LED modules.
- 71.** (original) The system of claim **61** wherein said arrangement of one or more LED modules comprises more than one LED each.

**72.** (original) The system of claim **71** wherein said arrangement of one or more LED modules comprises three LEDs each.

**73.** (original) The system of claim **72** wherein said three LEDs emit each a light of a different color wherein said colors are primary colors of a color space.

**74.** (original) The system of claim **73** wherein said three LEDs emit red, green and blue light (RGB).

**75.** (original) The system of claim **61** wherein said LED drivers are PWM LED drivers.

**76.** (original) The system of claim **75** wherein said PWM drivers are 4-bit drivers.

**77.** (original) The system of claim **76** wherein 4096 different colors can be displayed.

**78.** (original) The system of claim **61** wherein said LED drivers are current controlled drivers

**79.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having different brightness.

**80.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using flashing lights.

- 81.** (original) The system of claim **61** wherein defined categories of information are assigned to specific locations of LED modules.
- 82.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.
- 83.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval, different colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.
- 84.** (original) The system of claim **61** wherein said LED driver unit is activating the lights in defined time intervals.
- 85.** (previously presented) The system of claim **61** wherein said LED driver unit is controlling the transition between different colors of a LED module using a "flash" mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by a set brightness.
- 86.** (original) The system of claim **61** wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.

**87.**(original) The system of claim **86** wherein different options are possible to define said fading interval.

**88.**(original) The system of claim **87** wherein said options to define a fading interval include the options "No Fade", "Slow Fade", "Linear Fade", "Fast Fade".

**89.**(original) The system of claim **88** wherein only a few of said options are being used.

**90.**(canceled)

**91.**(original) The system of claim **61** wherein said circuit is realized in an ASIC.

**92.** (previously presented) The system of claim **61** wherein said LED modules are connected to said circuit via output pins.

**93.** (original) The system of claim **92** wherein nine output pins are arranged and controlled by a multiplexer arrangement.

**94.**(original) The system of claim **93** wherein nine output pins are arranged and controlled by a multiplexer arrangement.

**95.**(original) The system of claim **61** wherein said properties of said light signals to be displayed comprise a light pattern over a multitude of LED modules.

**96.** (original) The system of claim **61** wherein said properties of said signals to be displayed comprise a light intensity setting.

**97.** (original) The system of claim **96** wherein said properties of said signals to be displayed comprise a light intensity setting for each LED individually.

**98.** (original) The system of claim **61** wherein said properties of said signals to be displayed comprise a defined sequencing of said LEDs.

**99.** (previously presented) A method to establish visual, electronic communication, highlighting information/events, wherein LED modules are displaying related light signals having defined properties representing said different information/events comprising:

providing an integrated circuit comprising an user interface, being directly connected to a memory to store the information about the properties of said beams to be displayed, a sequencer, a LED driver unit connected to LEDs, and one or more LED modules, comprising more than one LED each;

determine the information to be visually highlighted;

define the kind of highlighting of the information selected above;

compose the sequencer steps according to the definitions of the two steps above;

if said composing software is built into a phone, store the sequences in said memory;

otherwise download sequences and store them in said memory; and  
ready for operation.

**100.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having different colors.

**101.** (original) The method of claim **100** wherein 4096 different colors are used.

**102.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having different brightness.

**103.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using flashing lights.

**104.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using LED modules assigned to specific positions.

**105.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.



**106.** (previously presented) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having different colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.

**107.** (previously presented) The method of claim **106** wherein said LED driver unit is controlling the transition between different colors of a LED module using a “flash” mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by a set brightness.